



February 28, 2019

Mr. Mark Thoma
Otter Tail Power Company
P.O. Box 496
Fergus Falls, MN 56538-0496

Re: Air Pollution Control
Permit to Construct

Dear Mr. Thoma:

Pursuant to the Air Pollution Control Rules of the State of North Dakota, the Department of Health has completed final review of your application for the installation/operation of replacement control equipment at the Coyote Station.

Based on the results of the documents reviewed, this Department hereby issues the enclosed North Dakota Air Pollution Control Permit to Construct No. PTC19001. A public comment period was held regarding this project from January 28, 2019 to February 27, 2019 and no comments were received by the Department.

Please advise the Department within 15 days after completing the project to allow for an inspection by the Department.

In addition, within 12 months after commencing operation, a Title V Permit to Operate application must be submitted to the Department. Questions regarding the Title V permit application may be addressed to Kyla Schneider at (701)328-5188 or kkschneider@nd.gov.

Note that the above-referenced permit addresses only air quality requirements applicable to your facility. Other divisions (Water Quality, Waste Management and Municipal Facilities) within the Environmental Health Section may have additional requirements. Contact information for the various divisions is listed at the bottom of this letter.

If you have any questions regarding air quality, please contact me at (701)328-5188 or at cthirstenson@nd.gov.

Sincerely,



Craig D. Thorstenson
Environmental Engineer
Division of Air Quality

Enc:

xc/enc: Patrick Wauters, EPA (email)

Environmental Health
Section Chief's Office
701.328.5150

Division of
Air Quality
701.328.5188

Division of
Municipal Facilities
701.328.5211

Division of
Waste Management
701.328.5166

Division of
Water Quality
701.328.5210



AIR POLLUTION CONTROL PERMIT TO CONSTRUCT

Pursuant to Chapter 23-25 of the North Dakota Century Code, and the Air Pollution Control Rules of the State of North Dakota (Article 33-15 of the North Dakota Administrative Code), and in reliance on statements and representations heretofore made by the owner designated below, a Permit to Construct is hereby issued authorizing such owner to construct and initially operate the source unit(s) at the location designated below. This Permit to Construct is subject to all applicable rules and orders now or hereafter in effect of the North Dakota Department of Health and to any conditions specified below:

I. General Information:

A. **Permit to Construct Number:** PTC19001

B. **Source:**

1. **Name:** Montana-Dakota Utilities Co.
North Western Energy
Northern Municipal Power Agency
(Minnkota Power Cooperative, Inc.)
Otter Tail Power Company
2. **Location:** Coyote Station
Sec. 10, S ½ of S ½ of Sec. 3 and W ½ of Sec. 11,
T143N, R88W
6240 – 13th Street SW
Beulah, Mercer County, North Dakota
3. **Source Type:** Electric Generating Unit; Coal
4. **Equipment Changes at the Facility:** This permit allows for the replacement of two baghouses at the facility which control the Northside distribution building (Emission Unit M3; Emission Point M3) and the Southside distribution building (Emission Unit M4; Emission Point M4). The baghouses will be replaced with wet dust extractive systems as outlined below.

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment
Northside distribution building*	M3	M3	Wet dust extractive system
Southside distribution building*	M4	M4	Wet dust extractive system

* Emission units at the facility are not authorized to be modified as part of this permit action.

C. **Owner/Operator (Permit Applicant):**

1. Name: Ottertail Power Company
2. Address: 215 South Cascade Street
P.O. Box 496
Fergus Falls, MN 56538-0496
3. Application Date: September 23, 2018

II. **Conditions:** This Permit to Construct allows the construction and initial operation of the above-mentioned new or modified equipment at the source. The source may be operated under this Permit to Construct until a Permit to Operate is issued unless this permit is suspended or revoked. The source is subject to all applicable rules, regulations, and orders now or hereafter in effect of the North Dakota Department of Health and to the conditions specified below.

A. **Emission Limits:** Emission limits from the operation of the equipment identified in Item I.B of this Permit to Construct (hereafter referred to as "permit") are as follows.

Emission Unit Description	EU	EP	Pollutant / Parameter	Emission Limits
Northside distribution building	M3	M3	Particulate Matter	1.69 lb/hr
			Opacity	20%*
Southside distribution building	M4	M4	Particulate Matter	1.27 lb/hr
			Opacity	20%*

* See Condition II.B.

B. **Opacity Limits Applicable to EU M3 and M4:**

1. Twenty percent opacity (six-minute average), except that a maximum of forty percent opacity (six-minute average) is permissible for not more than one six-minute period per hour. This standard applies at all times. This standard does not apply to opacity caused by the presence of uncombined water vapor. This limit is established in NDAC 33-15-03-02.
2. Twenty percent opacity (six-minute average) or greater shall not be discharged into the atmosphere. This standard does not apply during startup, shutdown and malfunction and does not apply to opacity caused by uncombined water vapor. This limit is established in NDAC 33-15-12, Subpart Y.

C. **New Source Performance Standards:** The owner/operator shall comply with all applicable New Source Performance Standards, including the following:

1. NDAC 33-15-12, Subpart A: The owner/operator shall comply with all applicable requirements of NDAC 33-15-12, Subpart A.
2. NDAC 33-15-12, Subpart Y: The owner/operator shall comply with all applicable requirements of NDAC 33-15-12, Subpart Y.

D. Emissions Testing:

1. Initial Testing: Within 180 days after initial startup, the permittee shall conduct an emissions test at one of the emission units listed below using an independent testing firm, to determine the compliance status of the facility with respect to the emission limits specified in Condition II.A. Emissions testing shall be conducted for the pollutant(s) listed below in accordance with EPA Reference Methods listed in 40 CFR 60, Appendix A. Test methods other than those listed below may be used upon approval by the Department.

Emission Unit Description	EP	Pollutant/Parameter	Number of Runs	Length of Runs	EPA Ref. Method(s)
Northside distribution building	M3	Particulate Matter	3	60 minutes	1-5
Southside distribution building	M4	Particulate Matter	3	60 minutes	1-5

A signed copy of the test results shall be furnished to the Department within 60 days of the test date. The basis for this condition is NDAC 33-15-01-12 which is hereby incorporated into this permit by reference. To facilitate preparing for and conducting such tests, and to facilitate reporting the test results to the Department, the owner/operator shall follow the procedures and formats in the Department's Emission Testing Guideline.

2. Notification: The permittee shall notify the Department using the form in the Emission Testing Guideline, or its equivalent, at least 30 calendar days in advance of any tests of emissions of air contaminants required by the Department. If the permittee is unable to conduct the performance test on the scheduled date, the permittee shall notify the Department at least five days prior to the scheduled test date and coordinate a new test date with the Department.
3. Sampling Ports/Access: Sampling ports shall be provided downstream of all emission control devices and in a flue, conduit, duct, stack or chimney arranged to conduct emissions to the ambient air.

The ports shall be located to allow for reliable sampling and shall be adequate for test methods applicable to the facility. Safe sampling platforms and safe access to the platforms shall be provided. Plans and

specifications showing the size and location of the ports, platform and utilities shall be submitted to the Department for review and approval.

4. Other Testing:

- a) The Department may require the permittee to have tests conducted to determine the emission of air contaminants from any source, whenever the Department has reason to believe that an emission of a contaminant not addressed by the permit applicant is occurring, or the emission of a contaminant in excess of that allowed by this permit is occurring. The Department may specify testing methods to be used in accordance with good professional practice. The Department may observe the testing. All tests shall be conducted by reputable, qualified personnel. A signed copy of the test results shall be furnished to the Department within 60 days of the test date.

All tests shall be made and the results calculated in accordance with test procedures approved by the Department. All tests shall be made under the direction of persons qualified by training or experience in the field of air pollution control as approved by the Department.

- b) The Department may conduct tests of emissions of air contaminants from any source. Upon request of the Department, the permittee shall provide necessary holes in stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices, as may be necessary for proper determination of the emission of air contaminants.

- E. **Construction:** Construction of the above described facility shall be in accordance with information provided in the permit application as well as any plans, specifications and supporting data submitted to the Department. The Department shall be notified ten days in advance of any significant deviations from the specifications furnished. The issuance of this Permit to Construct may be suspended or revoked if the Department determines that a significant deviation from the plans and specifications furnished has been or is to be made.

Any violation of a condition issued as part of this permit to construct as well as any construction which proceeds in variance with any information submitted in the application, is regarded as a violation of construction authority and is subject to enforcement action.

- F. **Startup Notice:** A notification of the actual date of initial startup shall be submitted to the Department within 15 days after the date of initial startup.

- G. **Title V Permit to Operate:** Within one year after startup of the units covered by this Permit to Construct, the owner/operator shall submit a permit application to modify the existing Title V Permit to Operate for the facility.
- H. **Permit Invalidation:** This permit shall become invalid if construction is not commenced within eighteen months after issuance of such permit, if construction is discontinued for a period of eighteen months or more; or if construction is not completed within a reasonable time.
- I. **Fugitive Emissions:** The release of fugitive emissions shall comply with the applicable requirements in NDAC 33-15-17.
- J. **Source Operations:** Operations at the facility shall be in accordance with statements, representations, procedures and supporting data contained in the initial application, and any supplemental information or application(s) submitted thereafter. Any operations not listed in this permit are subject to all applicable North Dakota Air Pollution Control Rules.
- K. **Alterations, Modifications or Changes:** Any alteration, repairing, expansion, or change in the method of operation of the source which results in the emission of an additional type or greater amount of air contaminants or which results in an increase in the ambient concentration of any air contaminant, must be reviewed and approved by the Department prior to the start of such alteration, repairing, expansion or change in the method of operation.
- L. **Recordkeeping:** The owner/operator shall maintain any compliance monitoring records required by this permit or applicable requirements. The owner/operator shall retain records of all required monitoring data and support information for a period of at least five years from the date of the monitoring sample, measurement, report or application. Support information may include all calibration and maintenance records and all original strip-chart recordings/computer printouts for continuous monitoring instrumentation, and copies of all reports required by the permit.
- M. **Nuisance or Danger:** This permit shall in no way authorize the maintenance of a nuisance or a danger to public health or safety.
- N. **Malfunction Notification:** The owner/operator shall notify the Department of any malfunction which can be expected to last longer than twenty-four hours and can cause the emission of air contaminants in violation of applicable rules and regulations.
- O. **Operation of Air Pollution Control Equipment:** The owner/operator shall maintain and operate all air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.
- P. **Transfer of Permit to Construct:** The holder of a permit to construct may not transfer such permit without prior approval from the Department.

- Q. **Right of Entry:** Any duly authorized officer, employee or agent of the North Dakota Department of Health may enter and inspect any property, premise or place at which the source listed in Item I.B of this permit is located at any time for the purpose of ascertaining the state of compliance with the North Dakota Air Pollution Control Rules. The Department may conduct tests and take samples of air contaminants, fuel, processing material, and other materials which affect or may affect emissions of air contaminants from any source. The Department shall have the right to access and copy any records required by the Department's rules and to inspect monitoring equipment located on the premises.
- R. **Other Regulations:** The owner/operator of the source unit(s) described in Item I.B of this permit shall comply with all State and Federal environmental laws and rules. In addition, the owner/operator shall comply with all local burning, fire, zoning, and other applicable ordinances, codes, rules and regulations.
- S. **Permit Issuance:** This permit is issued in reliance upon the accuracy and completeness of the information set forth in the application. Notwithstanding the tentative nature of this information, the conditions of this permit herein become, upon the effective date of this permit, enforceable by the Department pursuant to any remedies it now has, or may in the future have, under the North Dakota Air Pollution Control Law, NDCC Chapter 23-25.
- T. **Odor Restrictions:** The owner/operator shall not discharge into the ambient air any objectionable odorous air contaminant which is in excess of the limits established in NDAC 33-15-16.
- U. **Sampling and Testing:** The Department may require the owner/operator to conduct tests to determine the emission rate of air contaminants from the source. The Department may observe the testing and may specify testing methods to be used. A signed copy of the test results shall be furnished to the Department within 60 days of the test date. The basis for this condition is NDAC 33-15-01-12 which is hereby incorporated into this permit by reference. To facilitate preparing for and conducting such tests, and to facilitate reporting the test results to the Department, the owner/operator shall follow the procedures and formats in the Department's Emission Testing Guideline.

FOR THE NORTH DAKOTA
DEPARTMENT OF HEALTH

Date 2/28/19

By Terry L. O'Clair
Terry L. O'Clair, P.E.
Director
Division of Air Quality